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PATENT

Date : February 15, 2002

I hereby certify that on the date listed above, this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service in accordance with 37 C.F.R. § 1.10 as first class mail with sufficient postage in an envelope addressed to: Commissioner for Patents, Washington, DC 20231.

Trudi Thompson
Trudi Thompson

Applicant: Douglas Jolly

Serial No.: 10/001,729

Filed: October 22, 2001

Title: HIGH EFFICIENCY EX VIVO
TRANSDUCTION OF CELLS
BY HIGH TITER
RECOMBINANT RETROVIRAL
PREPARATIONS

Examiner: Unknown

Group Art Unit: 1632

Atty Docket No.: 20263.439 (1157.003)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**Submission of "Sequence Listing" and Computer Readable Copy for
Biotechnology Invention Containing Nucleotide and/or Amino Acid Sequence (37
CFR § § 1.821 - 1.825)**

Commissioner for Patents
Washington, D.C. 20231

Sir:

In compliance with 37 CFR § § 1.821-1.825 Applicant encloses a paper copy of the Sequence listing for the nucleotide and amino acid sequences disclosed in the above-identified application. A copy of the Sequence Listing in computer readable form is also submitted herewith.

**Statement That Computer Readable Copy
of Sequence Listing is the Same as
the Paper Copy of the Sequence Listing**

I hereby state:

1. The computer readable form of the Sequence Listing submitted in this application is the same as the paper copy of the "Sequence Listing" to which it is indicated to relate.

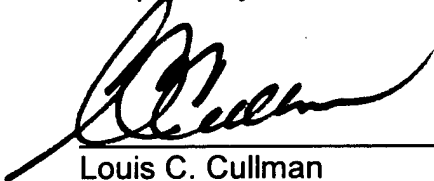
2. No new matter has been added to the computer readable copy or the paper copy of this Sequence Listing.

Verification

I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the above-identified patent application and any patent issuing thereon.

The Commissioner is authorized to charge any fee which may be required in connection with this submission to deposit account No. 16-2230.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Louis C. Cullman", is written over a horizontal line.

Louis C. Cullman
Reg. No. 39,645

February 15, 2002

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